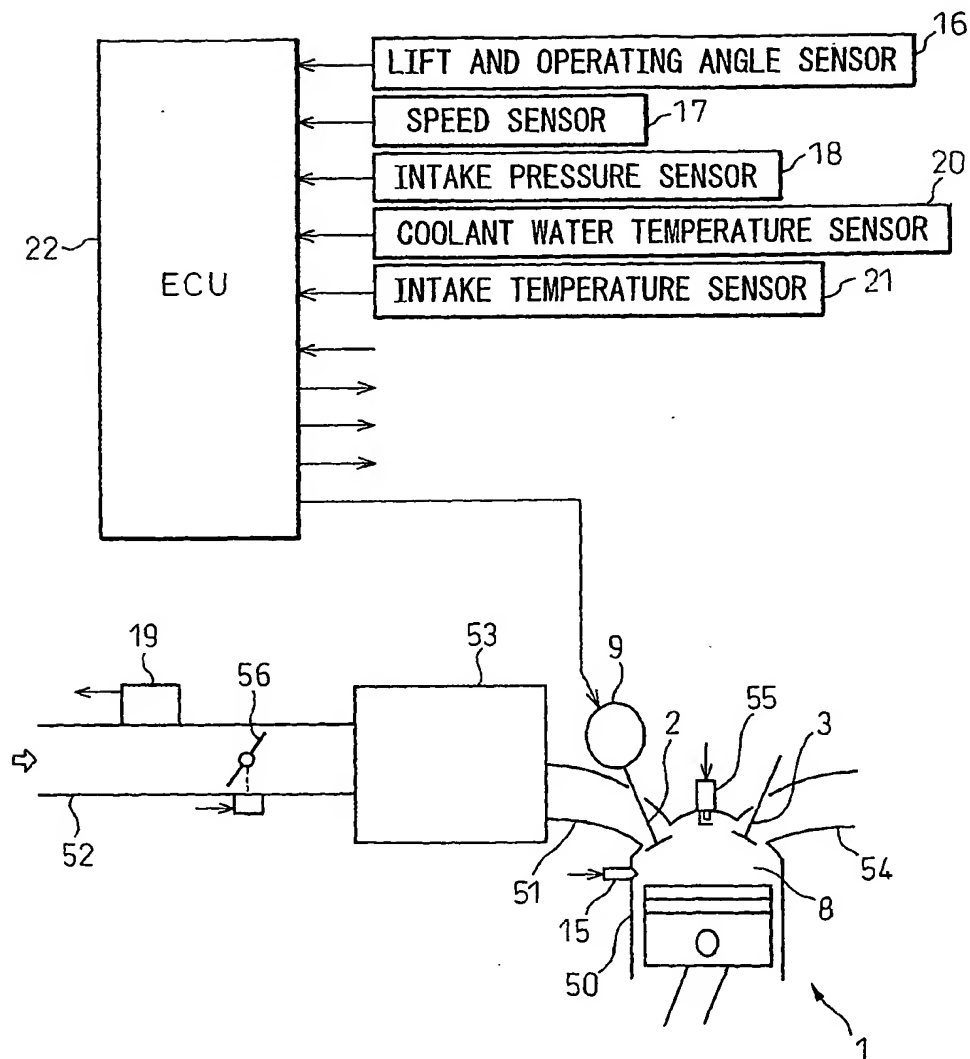


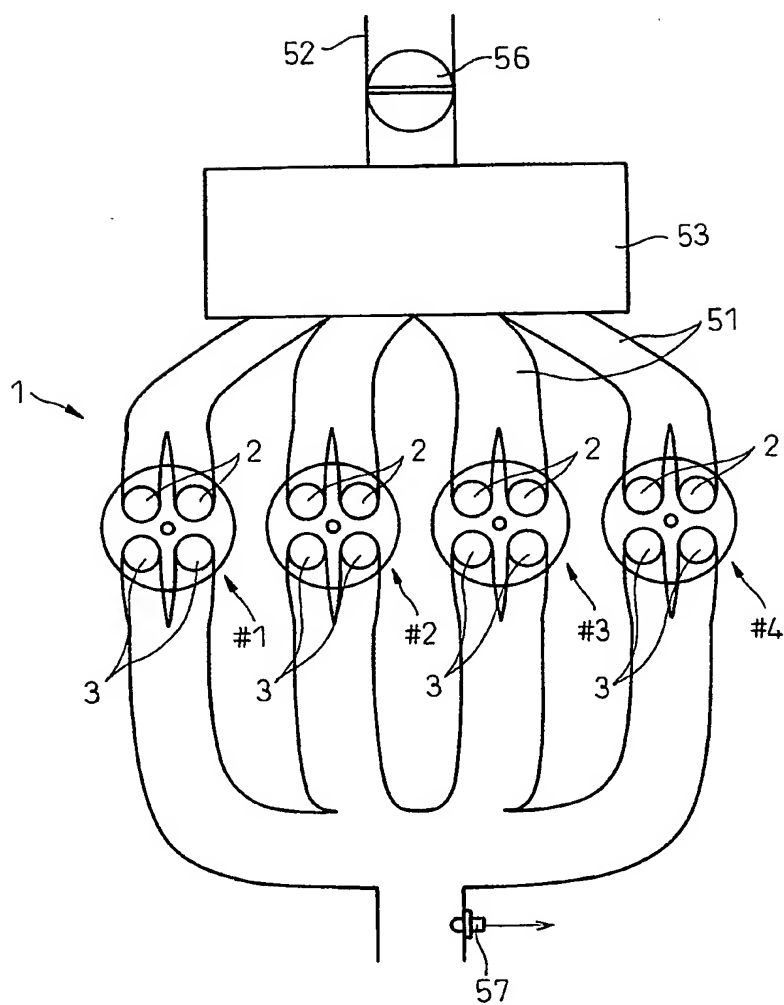
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Fig.1



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Fig.2



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Fig.3

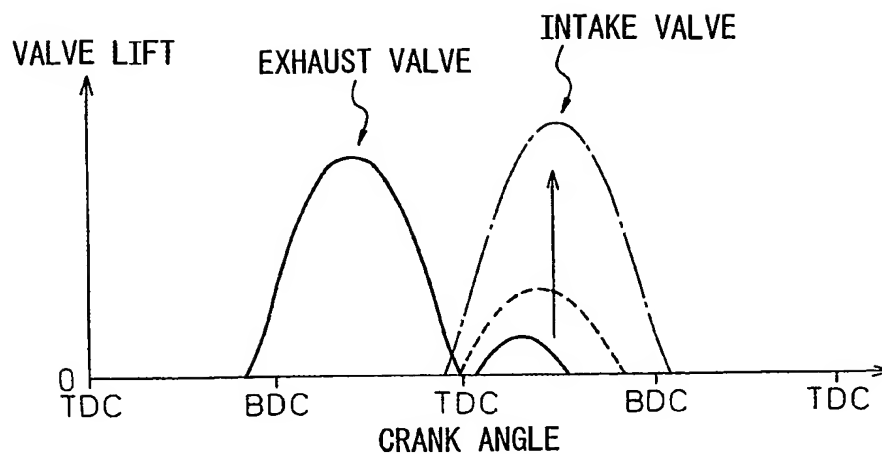
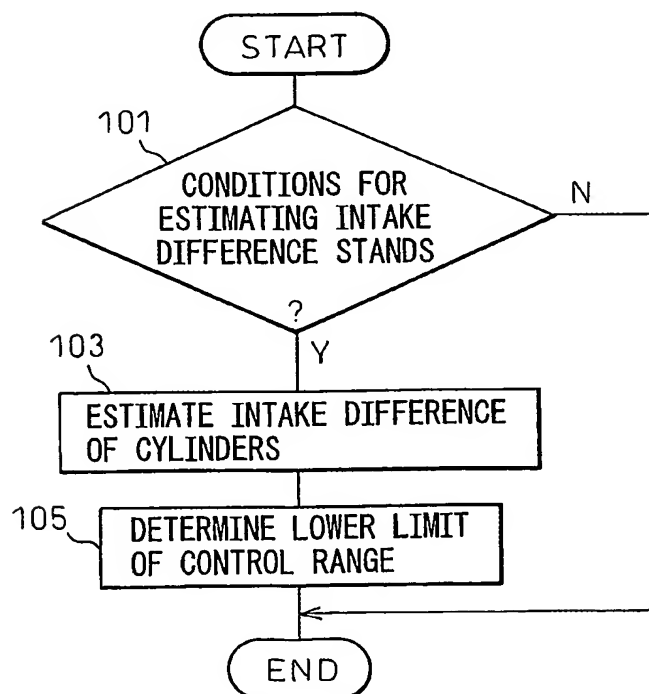


Fig.4



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Fig.5a

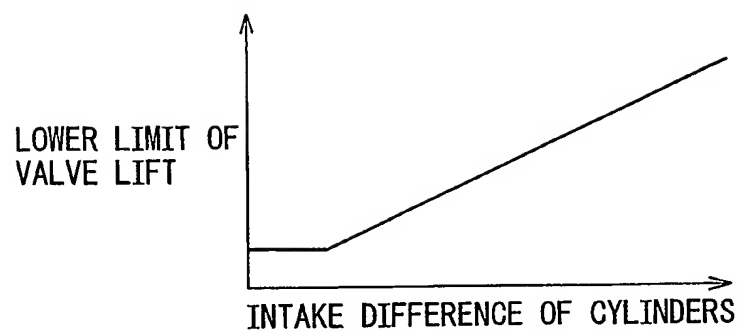
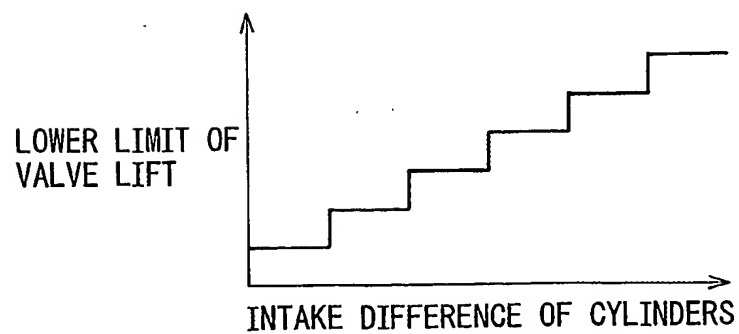


Fig.5b



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Fig.6

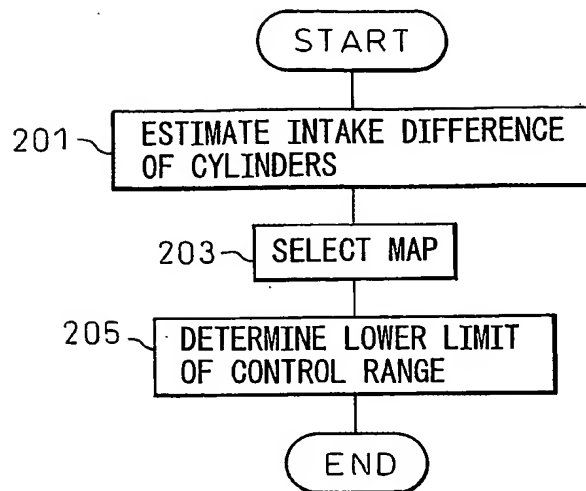
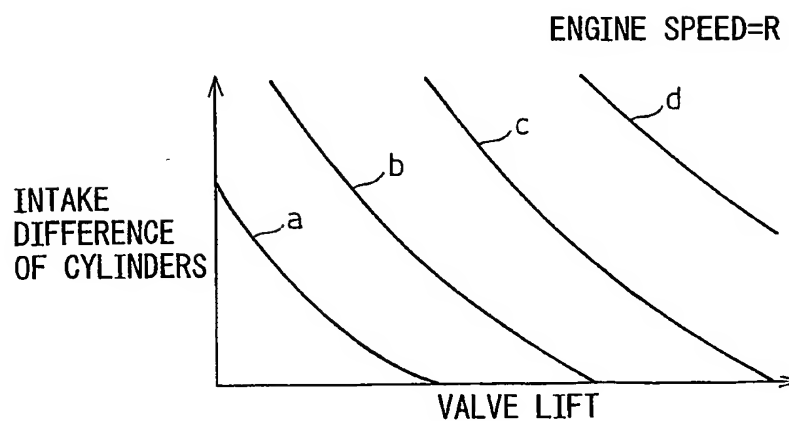
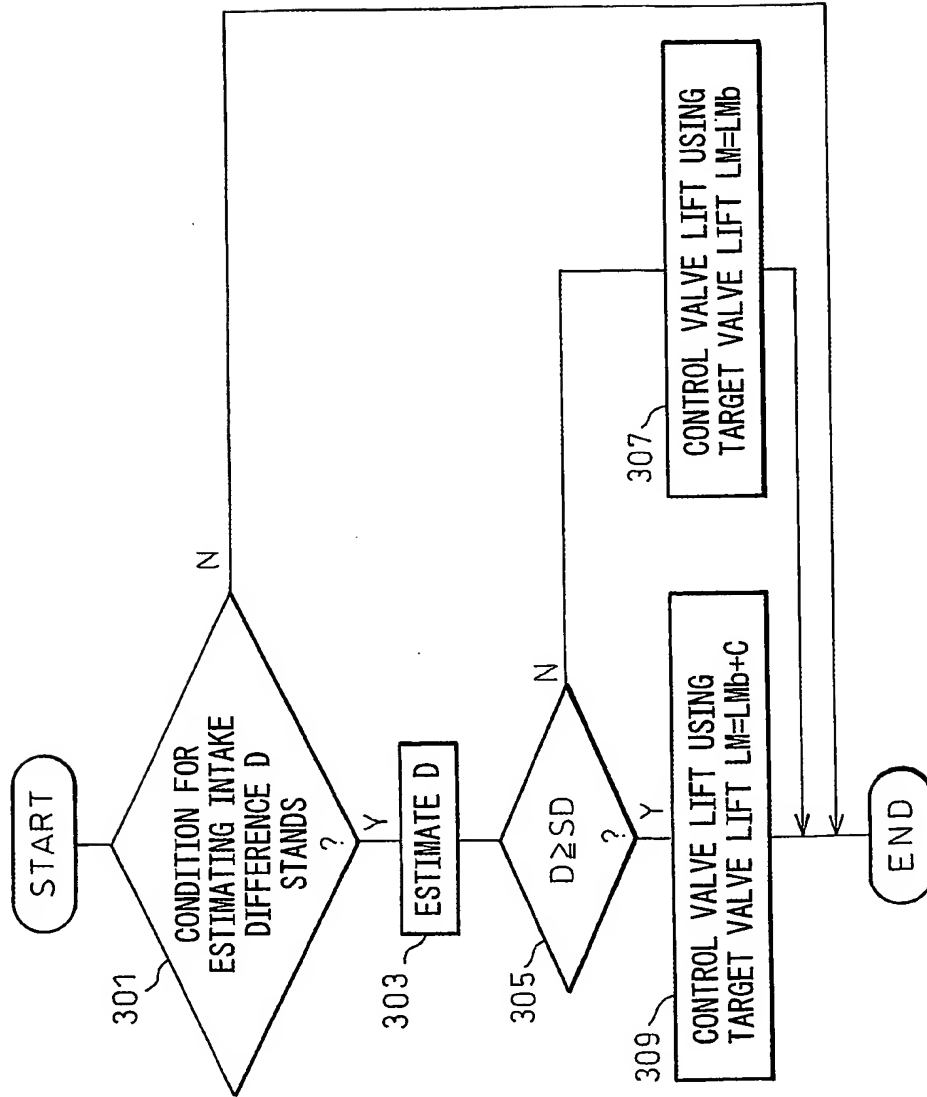


Fig.7



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Fig. 8



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Fig.9

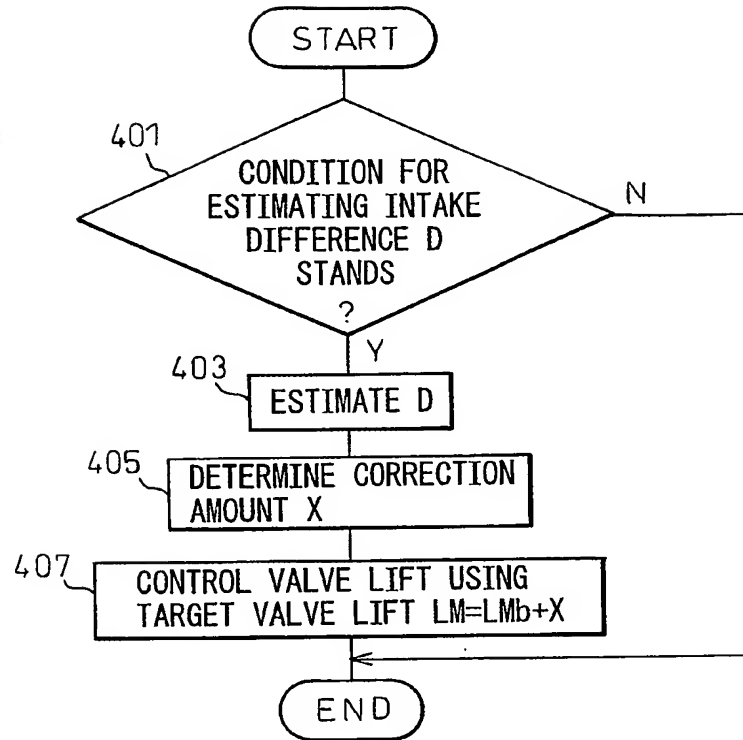


Fig.10

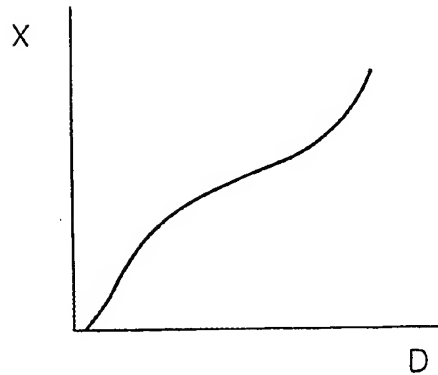
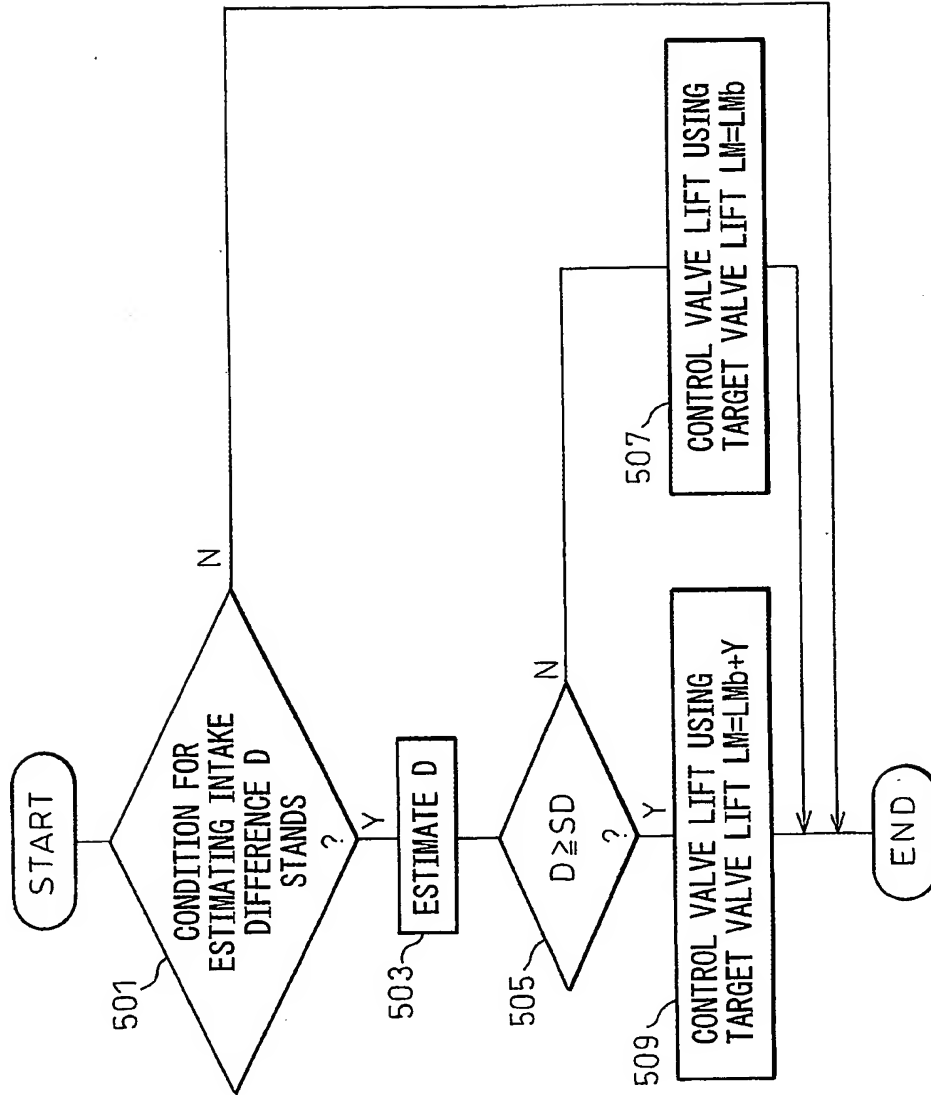


Fig.11





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Fig.12

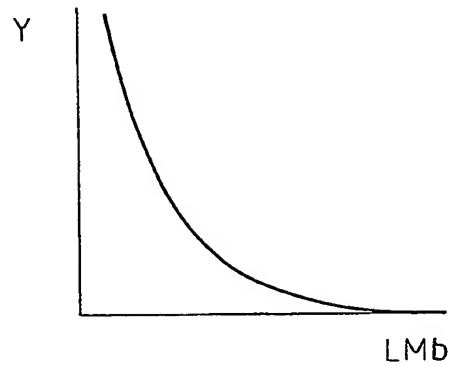
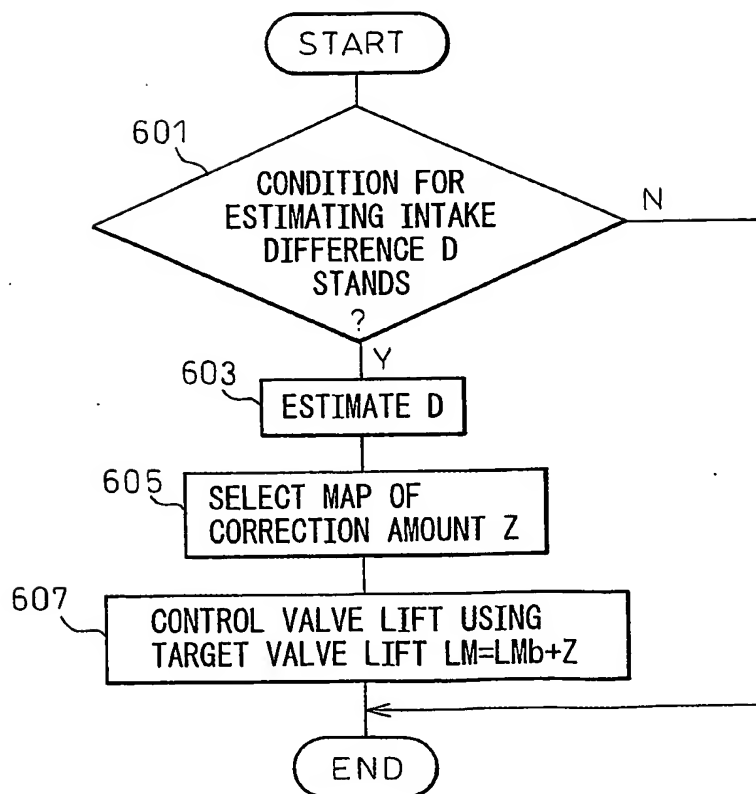


Fig.13



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Fig.14

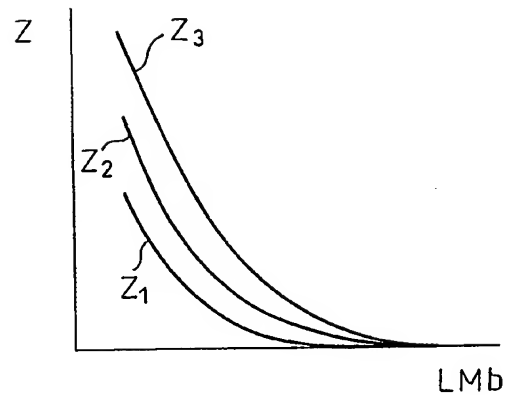
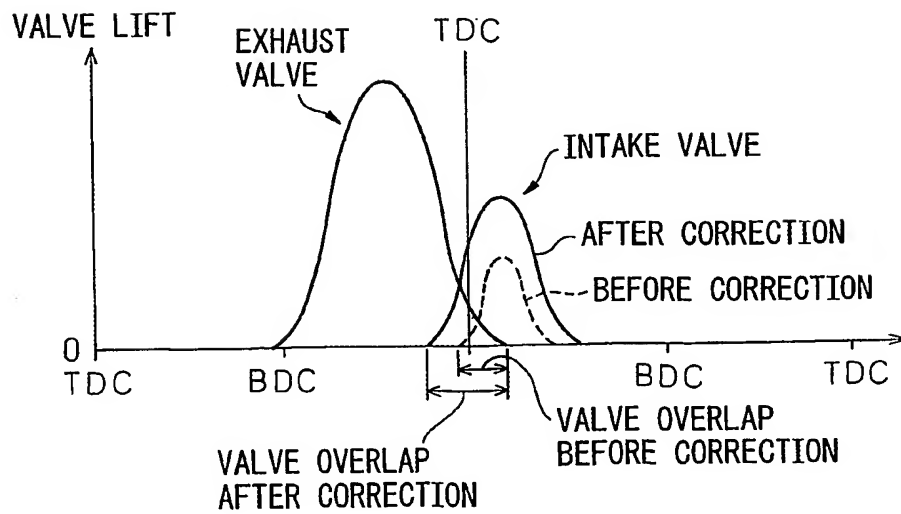
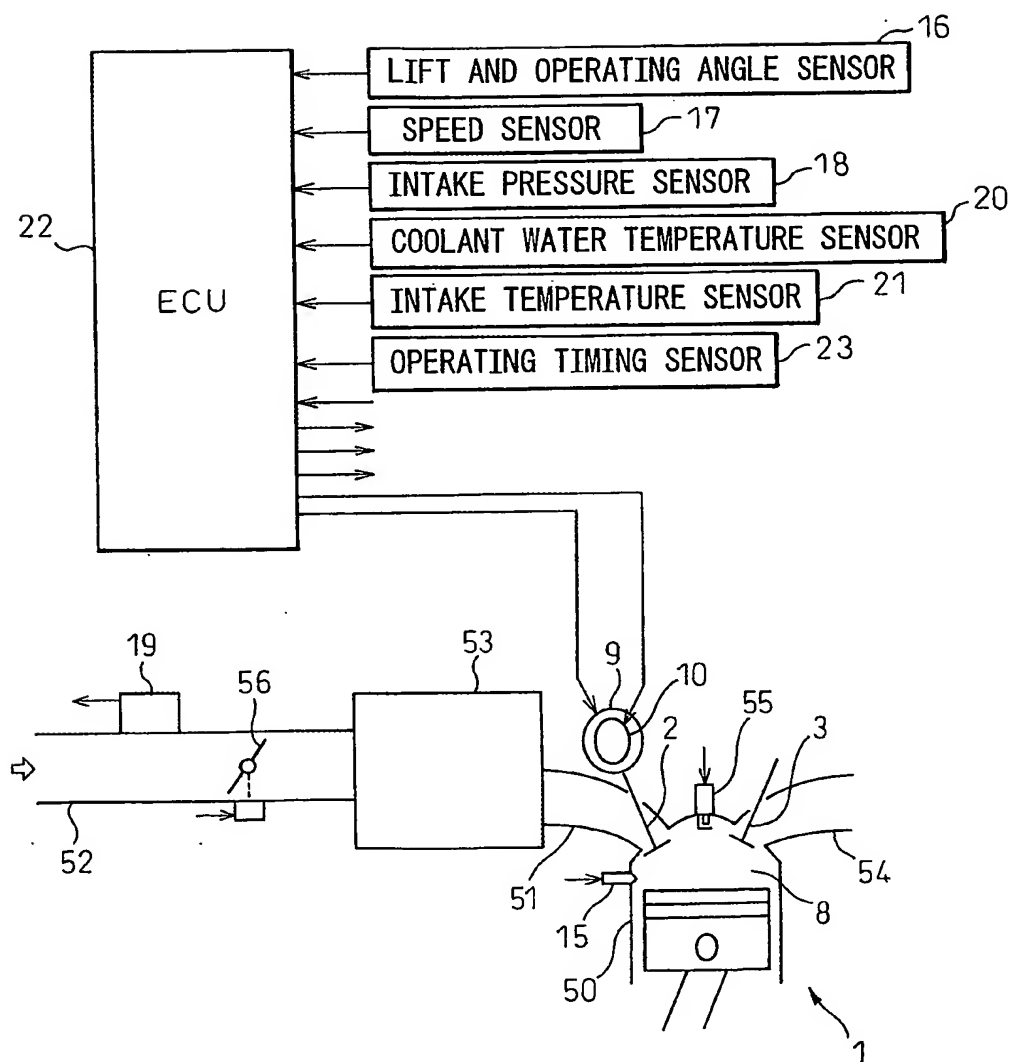


Fig.15



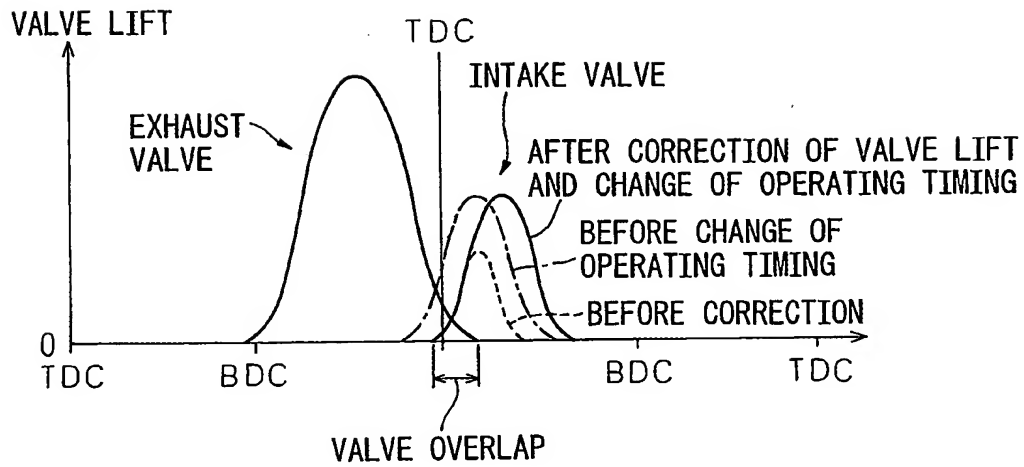
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Fig.16



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Fig.17



## LIST OF REFERENCES

- 1... internal combustion engine body
- 2... intake valve
- 3... exhaust valve
- 8... combustion chamber in cylinder
- 9... valve lift changing device
- 10... operating timing changing device
- 56... throttle valve
- 57... air-fuel ratio sensor